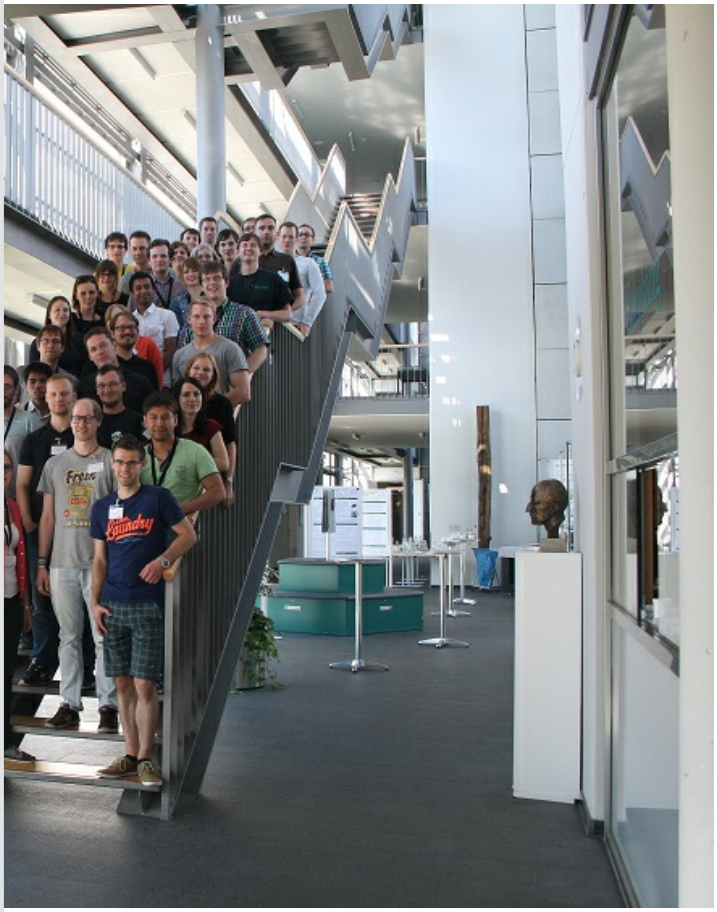
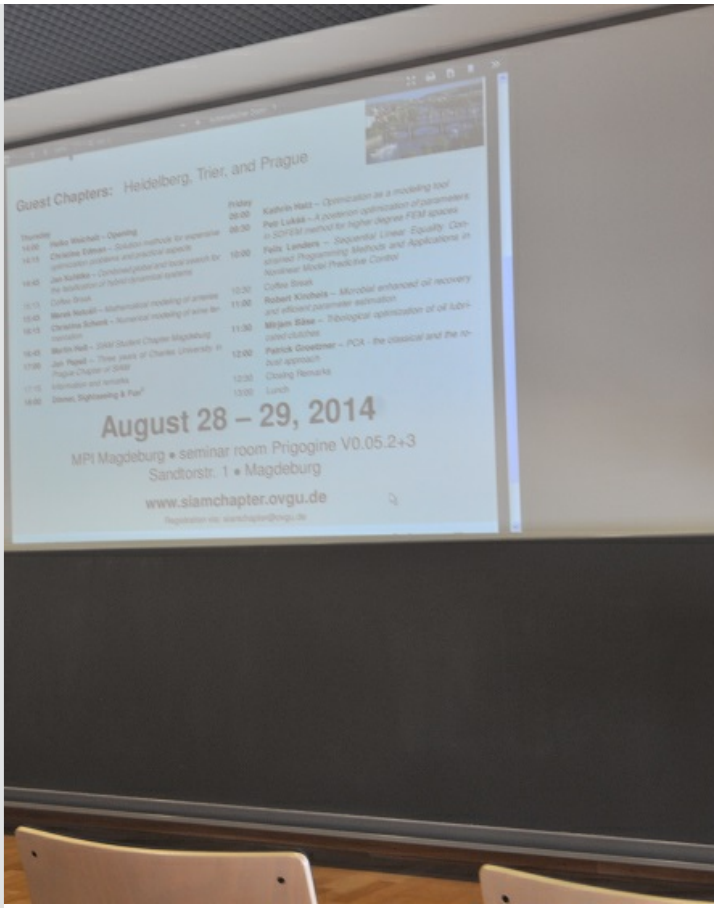
OTTO VON GUERICKE UNIVERSITÄT MAGDEBURG

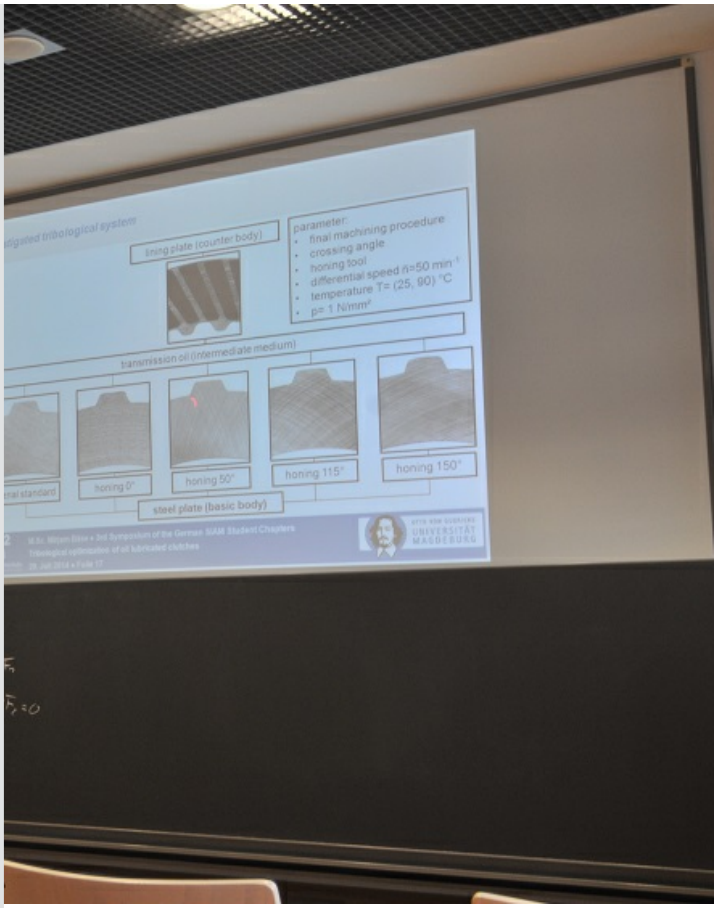
STUDENT CHAPTER OF SIAM MAGDEBURG

hapters

man SIAM Student Chapters in Trier (2012) and Heidelberg (2013), t
We expected guests from the German SIAM Chapters in Heidelberg




Guest Chapters: Heidelberg, Trier, and Prague
August 28 – 29, 2014
MPI Magdeburg • seminar room Prigogine V0.05.2+3
Sandtorstr. 1 • Magdeburg
www.siamchapter.ovgu.de


lining plate (counter body)
parameter:
final machining procedure
crossing angle
honing tool
differential speed n=50 min⁻¹
temperature T= (25, 90) °C
p= 1 N/mm²
transmission oil (intermediate medium)
honing 0°
honing 50°
honing 115°
honing 150°
steel plate (basic body)
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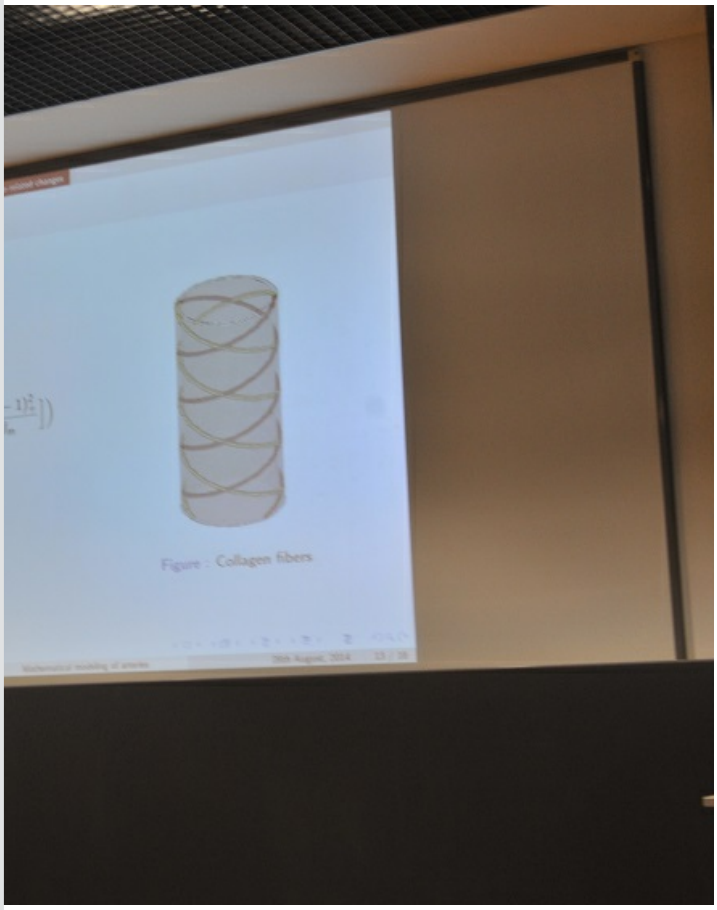
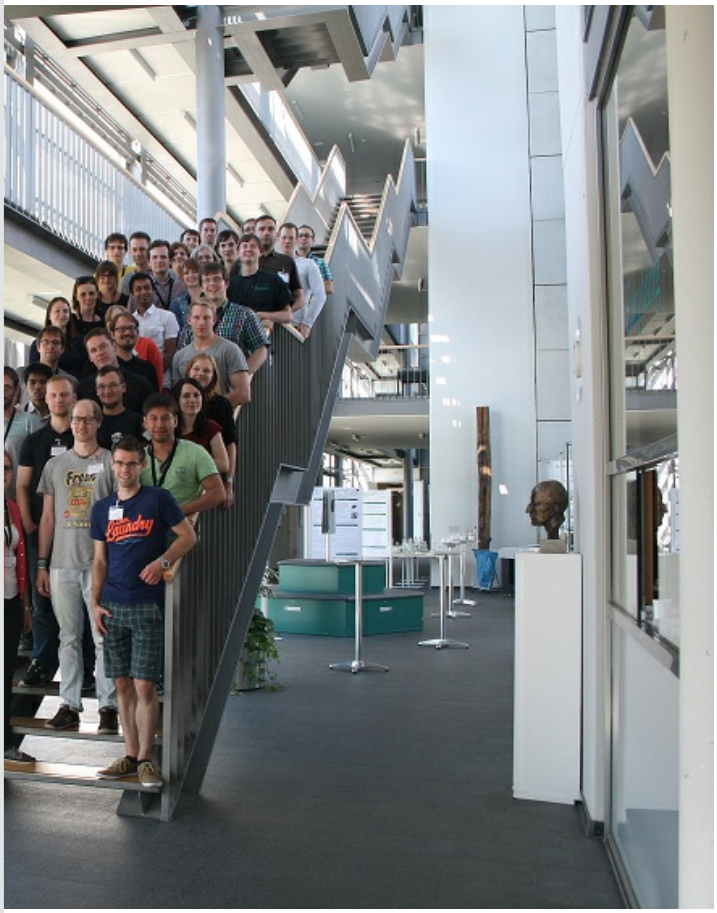
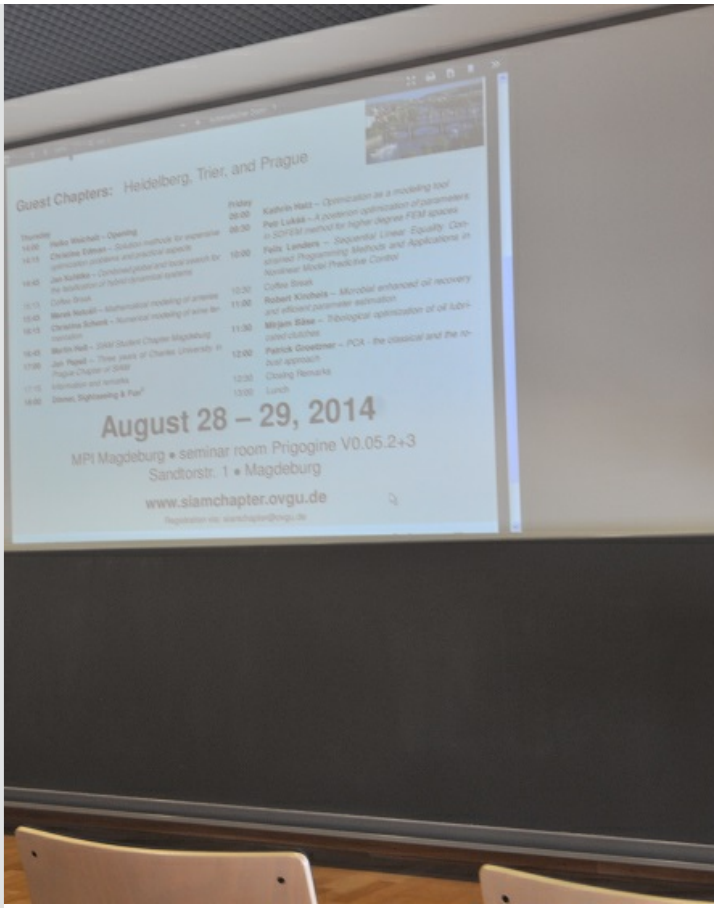


Figure : Collagen fibers

roject: MEOR Studies
Tertiary oil extraction technology allowing the partial recovery of oil entrapped in porous media
Stimulated microbes improve oil production by mobilizing residual oil trapped in the pore space.
The bacterial growth at an oil/water interface causes a substantial reduction in interfacial tension and influences other parameters as viscosity and permeability.
Partners:
BASF
The Chemical Company
wintershall

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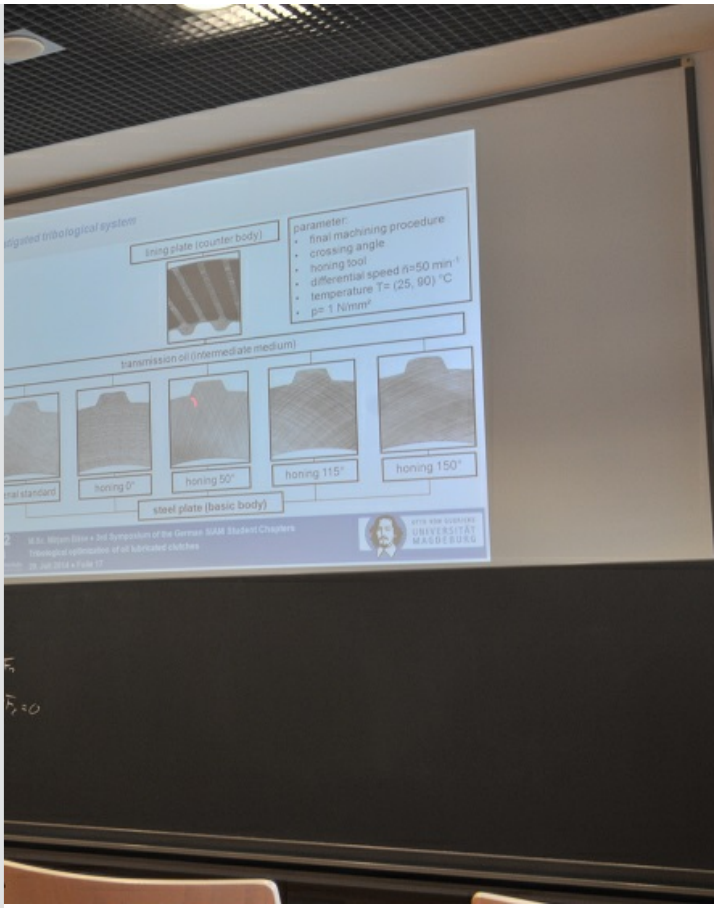
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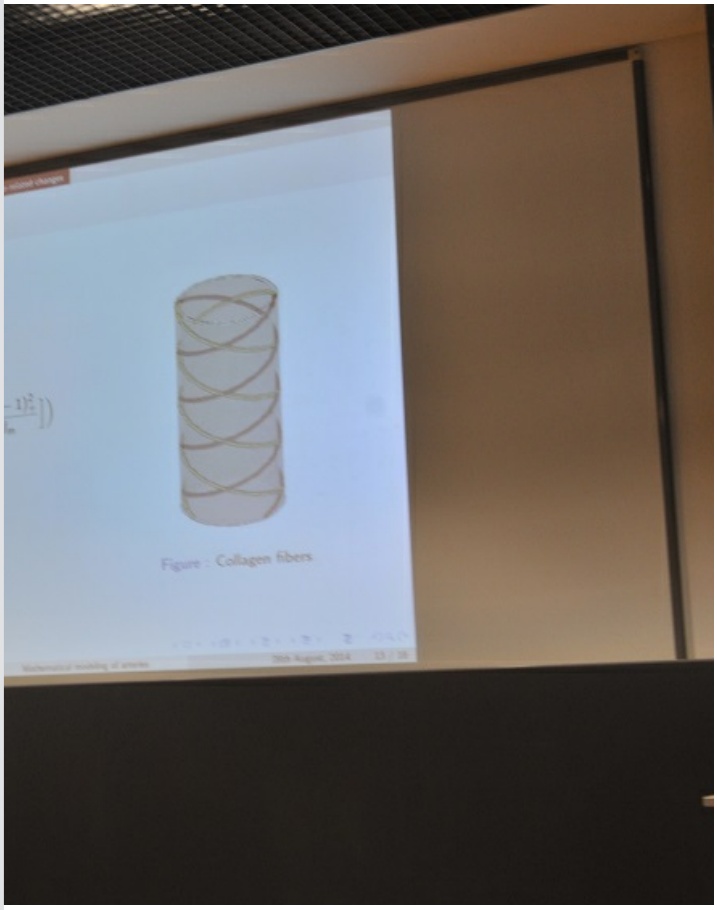
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« Zurück**3rd_symposium_009** (Bild 9 von 10) » Vorwärts

participated to extend the international connections.

rigogine V0.05.2+3

f the four participating SIAM Student Chapters gave talks about their
de spectrum in applied mathematics, such as optimization,
n, and application examples. The first half of the scientific program
bar for dinner. Later, an exciting discovery tour awaited us, we
ough the medieval Magdeburg. The program ended on Friday
collaborations.

m of the
l Student

Trier, and Prague

	Friday	
	09:00	**Kathrin Hatz –** Optimization as a modeling tool
nsive	**09:30**	**Petr Lukáš –** A posteriori optimization of parameters in SDFEM method for higher degree FEM spaces
ch for	**10:00**	**Felix Lenders –** Sequential Linear Equality Constrained Programming Methods and Applications in Nonlinear Model Predictive Control
eries	10:30	Coffee Break
e fer-	**11:00**	**Robert Kircheis –** Microbial enhanced oil recovery and eff cient parameter estimation
rg	**11:30**	**Mirjam Bäse –** Tribological optimization of oil lubricated clutches
ity in	**12:00**	**Patrick Groetzner –** PCA - the classical and the robust approach
	12:30	Closing Remarks
	13:00	Lunch

28 – 29, 2014

inar room Prigogine V0.05.2+3
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via: siamchapter@ovgu.de

AM Student Chapter
rles University in Prague

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MAX PLANCK INSTITUTE FOR DYNAMICS OF COMPLEX TECHNICAL SYSTEMS MAGDEBURG

MAX-PLANCK-GESELLSCHAFT

oblems and practical aspects

cation of hybrid dynamical systems

apter of SIAM

EM method for higher degree FEM

nming Methods and Applications in

arameter estimation

es

News ▶

Seminar: Basics of LaTeX, 09.10

Volleyball on Friday, 16.08

15.02.2024
Seminar Prof. Dr.-Ing. Daniel Juhre

› more...

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